09/751299 STN Search Summary

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	L1 L2 L3 L4	FILE 'CAPLUS' ENTERED AT 15:46:19 ON 26 MA 836 S NITRILASE OR (NITRILE (2W) HY 187 S L1 AND (CYANO? OR CYANIDE) 50 S L2 AND (?CARBOXYLIC (2W) ACID 20 S L3 AND (STEREO? OR REGIO? OR	YDRATASE)					
	L4 AN TI	ANSWER 1 OF 20 CAPLUS COPYRIGHT 2003 ACS 2003:229543 CAPLUS Purification, cloning, sequencing and over-expression in Escherichia cold of a regional regional regional cold and cold regional reg						
	AU SO	Chauhan, S.; Wu, S.; Blumerman, S.; Fallon, R. D.; Gavagan, J. E.; DiCosimo, R.; Payne, M. S. Applied Microbiology and Biotechnology (2003), 61(2), 118-122						
APP	L4 AN TI IN PA SO	ANSWER 2 OF 20 CAPLUS COPYRIGHT 2003 ACS 2003:6085 CAPLUS Bacterial nitrilase and gene sequences exhibiting stereoselectivity useful for synthesis of chiral reaction products Madden, Mark; Desantis, Grace; Chaplin, Jennifer Ann; Weiner, David Paul; Milan, Aileen; Chi, Ellen; Short, Jay M.; Burk, Mark Diversa Corporation, USA; Madden, Darcy PCT Int. Appl., 560 pp.						
Vu			LICATION NO. DATE					
	PI PRAI		2002-US15983 20020515					
	L4 AN TI	ANSWER 3 OF 20 CAPLUS COPYRIGHT 2003 ACS 2002:525755 CAPLUS An enzyme library approach to biocatalysis: development of nitrilases for enantioselective production of carboxylic acid derivatives						
R	.CS .	DeSantis, Grace; Zhu, Zuolin; Greenberg, William A.; Wong, Kelvin; Chaplin, Jenny; Hanson, Sarah R.; Farwell, Bob; Nicholson, Lawrence W.; Rand, Cynthia L.; Weiner, David P.; Robertson, Dan E.; Burk, Mark J.						
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AN
     2002:123237 CAPLUS
ΤI
     Preparation of dicarboxylic acid monoesters from
     cyanocarboxylic acid esters
IN
     Chauhan, Sárita; Dicosimo, Robert; Fallon, Robert D.; Gavagan, John E.;
     Payne, Maxk S.
     E. I. Du/Pont de Nemours and Company, USA
PA
SO
     PCT Int/. Appl., 31 pp.
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO.
     WO 2,002012527
PΙ
                     A2
                           20020214
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                                                           20010803
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                                                            20000804
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                      Α5
                            20020218
                                          AU 2001-79159
                                                           20010803
PRAI VS 2000-632419
                      Α
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                      W
                            20010803
OS
     CASREACT 136:166162; MARPAT 136:166162
     ANSWER 5 OF 20 CAPLUS COPYRIGHT 2003 ACS
L4
ΑN
     2001:878920 CAPLUS
     (E)-Selective hydrolysis of (E,Z)-.alpha.,.beta.-unsaturated nitriles by
ΤI
     the recombinant nitrilase AtNIT1 from Arabidopsis thaliana
ΑU
     Effenberger, Franz; Osswald, Steffen
SO
    /Tetrahedron: Asymmetry (2001), 12(18), 2581-2587
L4
    ANSWER 7 OF 20 CAPLUS COPYRIGHT 2003 ACS
     2001:747978 CAPLUS
ΑN
TТ
     Isolation and expression of a gene for a nitrilase from
     Acidovorax facilis 72W and use of recombinant nitrilase as a
     biocatalyst
ΙN
     Fallon, Robert D.; Payne, Mark S.; Chauhan, Sarita; Dicosimo, Robert
PΑ
     E.I. Dupont De Nemours and Company, USA; Gavagan, John, E.
SO
     PCT Int. Appl., 67 pp.
     PATENT NO.
                     KIND DATE
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                           ______
     WO 2001075077
                     A2
                           20011011
                                          WO 2001-US10481
                                                           20010330
    WO 2001075077
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     WO 2001075077
                     C1
                           20021219
     EP 1280892
                      A2
                           20030205
                                          EP 2001-922985
                                                           20010330
PRAI US 2000-193707P
                      Ρ
                           20000331
     WO 2001-US10481
                      W
                           20010330
OS
    MARPAT 135:315314
L4
    ANSWER 8 OF 20 CAPLUS COPYRIGHT 2003 ACS
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ANSWER 4 OF 20 CAPLUS COPYRIGHT 2003 ACS

2001:669871 CAPLUS

Groger, Harald

for the diversity of biocatalysis

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ΑU

SO

Enzymatic routes to enantiomerically pure aromatic

.alpha.-hydroxy carboxylic acids: a further example

Advanced Synthesis & Catalysis (2001), 343(6+7), 547-558

L4

- L4 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2003 ACS
- AN 2001:489604 CAPLUS
- ${\tt TI} \quad {\tt Producing \ enantiomerically \ pure \ .alpha.-substituted}$

carboxylic acids using stereospecific

- nitrilases in the presence of Strecker reagents

 IN Madden, Mark; Weiner, David Paul; Chaplin, Jennifer Ann
- PA Diversa Corp., USA; Madden, Darcy
- SO PCT Int. Appl., 87 pp.

БО	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001048175	A2	20010705	WO 2000-US35555	20001229
	WO 2001048175	A3	20020214		
	US 2002012974	A1	20020131	US 2000-751299	20001228
	EP 1242589	A2	20020925	EP 2000-989578	20001229
PRAI	US 1999-173609P	A2	19991229		
	US 2000-254414P	A2	20001207		
	WO 2000-US35555	W	20001229		
OS	CASREACT 135:891	40; MA	RPAT 135:89140		

- L4 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2003 ACS
- AN 2000:254122 CAPLUS
- TI Preparation of chiral carboxylic acids from racemic nitriles by resolution with a stereospecific nitrilase or nitrilase-containing microorganisms
- IN Ress-loeschke, Marion; Friedrich, Thomas; Hauer, Bernhard; Mattes, Ralf; Engels, Dirk
- PA BASF A.-G., Germany
- SO Ger. Offen., 28 pp.
- LA German

	PAIENT NO.	KIND	DATE	APPLICATION NO. DATE
PΙ	DE 19848129	A1	20000420	DE 1998-19848129 19981019
	WO 2000023577	A1	20000427	WO 1999-EP7679 19991013
	AU 9964708	A1	20000508	AU 1999-64708 19991013
	BR 9914629	A	20010626	BR 1999-14629 19991013
	EP 1123386	A1	20010816	EP 1999-952558 19991013
	EE 200100232	A	20020815	EE 2001-20010023219991013
	JP 2002527106	Т2	20020827	JP 2000-577288 19991013
	NO 2001001912	A	20010418	NO 2001-1912 20010418
	ZA 2001004066	A	20020701	ZA 2001-4066 20010518
PRAI	DE 1998-19848129	Α	19981019	, , , , , ,
	WO 1999-EP7679	W	19991013	
OS	MARPAT 132:292813	3		

- L4 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2003 ACS
- AN 1998:618329 CAPLUS
- TI Nitrile hydratase and amidase genes recombinant production in host cells and use for the production of chiral amides and carboxylic acids
- IN Fallon, Robert Donald; Nelson, Mark James; Payne, Mark Scott
- PA E. I. Du Pont De Nemours and Company, USA
- SO U.S., 37 pp.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 581⁄1286	Α	19980922	US 1996-726136	19961004
US 58⁄88785	Α	19990330	US 1998-103411	19980624
US 6133421	Α	20001017	US 1998-103434	19980624
US/6251650	B1	20010626	US 2000-687594	20001013
ŲŚ 1995-4914P	Ρ.	19951006		
ÚS 1996-726136	А3	19961004		
US 1998-103434	A3	19980624		
	US 5811286 US 5888785 US 6133421 US 6251650 US 1995-4914P	US 5814286 A US 5888785 A US 6133421 A US 6251650 B1 US 1995-4914P P US 1996-726136 A3	US 5814286 A 19980922 US 5888785 A 19990330 US 6133421 A 20001017 US 6251650 B1 20010626 US 1995-4914P P 19951006 US 1996-726136 A3 19961004	US 5814286 A 19980922 US 1996-726136 US 5888785 A 19990330 US 1998-103411 US 6133421 A 20001017 US 1998-103434 US 6251650 B1 20010626 US 2000-687594 US 1995-4914P P 19951006 US 1996-726136 A3 19961004

- L4 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2003 ACS
- AN 1996:367768 CAPLUS
- TI Method of producing optically active .alpha.-hydroxy acid or .alpha.-hydroxyamide
- IN Tamura, Koji
- PA Nitto Chemical Industry Co., Ltd., Japan
- SO Eur. Pat. Appl., 10 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	EP 711836	A1	19960515	EP 1995-307976	19951108
	EP 711836	B1	20000202		
	R: DE, F	R, GB		·	
	JP 08131188	A2	19960528	JP 1994-299109	19941109
	JP 3119468	B2	20001218		
	US 5736385	А	19980407	US 1995-556085	19951109
PRAI	JP 1994-29910	9 A	19941109		

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L1
     ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
ΑN
     2001:489604 CAPLUS
DN
     135:89140
TI
     Producing enantiomerically pure .alpha.-substituted carboxylic acids using
     stereospecific nitrilases in the presence of Strecker
IN
     Madden, Mark; Weiner, David Paul; Chaplin, Jennifer Ann
PA
     Diversa Corp., USA; Madden, Darcy
SO
     PCT Int. Appl., 87 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                           APPLICATION NO.
                                                           DATE
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                            20010705
ΡI
     WO 2001048175
                      A2
                                          WO 2000-US35555 20001229
     WO 2001048175
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             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                        US 2000-751299
     US 2002012974
                     A1
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     EP 1242589
                                          EP 2000-989578
                      Α2
                            20020925
                                                            20001229
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PRAI US 1999-173609P
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     US 2000-254414P
                            20001207
                       Α2
     WO 2000-US35555
                      W
                            20001229
OS
     CASREACT 135:89140; MARPAT 135:89140
     ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
L1
AN
     2000:598000 CAPLUS
DN
     133:295394
TI
     Stereoretentive Nitrile Hydratase-Catalysed Hydration of D-Phenylglycine
     Nitrile
ΑU
     Wegman, M. A.; Heinemann, U.; Stolz, A.; van Rantwijk, F.; Sheldon, R. A.
     Laboratory of Organic Chemistry and Catalysis, Delft University of
CS
     Technology, Delft, 2628 BL, Neth.
SO
     Organic Process Research & Development (2000), 4(5), 318-322
     CODEN: OPRDFK; ISSN: 1083-6160
     American Chemical Society
PB
DT
     Journal
LA
     English
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2 S STRECKER AND NITRILASE

L1

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ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
L2
    2000:598000 CAPLUS
AN
     133:295394
DN
     Stereoretentive Nitrile Hydratase-Catalysed Hydration of D-Phenylglycine
TI
    Nitrile
ΑU
    Wegman, M. A.; Heinemann, U.; Stolz, A.; van Rantwijk, F.; Sheldon, R. A.
    Laboratory of Organic Chemistry and Catalysis, Delft University of
CS
     Technology, Delft, 2628 BL, Neth.
SO
     Organic Process Research & Development (2000), 4(5), 318-322
    CODEN: OPRDFK; ISSN: 1083-6160
PΒ
    American Chemical Society
DΤ
     Journal
LA
    English
CC
     16-2 (Fermentation and Bioindustrial Chemistry)
     Section cross-reference(s): 7
AΒ
     The hydration of D-phenylglycine nitrile to the corresponding amide,
    mediated by nitrile hydratase-contg. microorganisms, was studied. Batch
     and fed-batch reactions were compared with regard to degrdn. and
     racemization of the chem. labile substrate. A batch process gave
     satisfactory results and at up to 25 mM D-phenylglycine nitrile (D-1),
     D-phenylglycine amide was obtained in 94% yield with 92% ee using an
     immobilized Rhodococcus sp. (NOVO SP 361). The enzyme could be reused,
     although it slowly lost its activity. When the concn. of D-phenylglycine
    nitrile was increased to 100 mM in a batch reaction rapid decompn. of the
     substrate was obsd. and D-phenylglycine amide was obtained in only 37%
     yield. A fed-batch reaction afforded an improved yield, although the
     decompn. of the substrate could not be avoided completely. Lowering the
     temp. stabilized the substrate, and a fed-batch reaction at 5 .degree.C
     resulted in a 96% yield of D-phenylglycine amide with 95% ee. A no. of
     other whole-cell hydratase/amidase systems also hydrated D-1 in nearly
     quant. yield and >94% ee. Moreover, the ee was further increased to >99%
     upon prolonged reaction times with minimal loss in yield due to the action
     of the L-specific amidase that is present in these biocatalysts.
ST
     Rhodococcus immobilized nitrile hydratase phenylglycine nitrile hydration
ΙT
    Rhodococcus
        (NOVO SP 361; stereoretentive nitrile hydratase catalyzed hydration of
        D-phenylglycine nitrile)
ΙT
     Amination
        (Strecker, retro-; stereoretentive nitrile hydratase catalyzed
        hydration of D-phenylglycine nitrile)
ΙT
     Fermentation
        (batch; stereoretentive nitrile hydratase catalyzed hydration of
        D-phenylglycine nitrile)
ΙT
     Immobilization, biochemical
        (microbial cell; stereoretentive nitrile hydratase catalyzed hydration
        of D-phenylglycine nitrile)
ΙT
     Hydration, chemical
        (selective, enzymic; stereoretentive nitrile hydratase catalyzed
        hydration of D-phenylglycine nitrile)
ΙT
     Rhodococcus erythropolis
     Rhodococcus globerulus
     Rhodococcus rhodochrous
        (stereoretentive nitrile hydratase catalyzed hydration of
        D-phenylglycine nitrile)
ΙT
     100-52-7, Benzaldehyde, biological studies
     RL: ADV (Adverse effect, including toxicity); FMU (Formation,
     unclassified); BIOL (Biological study); FORM (Formation, nonpreparative)
        (stereoretentive nitrile hydratase catalyzed hydration of
        D-phenylglycine nitrile)
ΙT
     6485-67-2P, D-Phenylglycine amide
     RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL
     (Biological study); PREP (Preparation)
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(stereoretentive nitrile hydratase catalyzed hydration of

```
D-phenylglycine nitrile)
IT
     9024-90-2, Nitrilase
     RL: BPR (Biological process); BSU (Biological study, unclassified); CAT
     (Catalyst use); BIOL (Biological study); PROC (Process); USES (Uses)
        (stereoretentive nitrile hydratase catalyzed hydration of
        D-phenylglycine nitrile)
TΤ
     45789-64-8
                  66116-54-9
     RL: BPR (Biological process); BSU (Biological study, unclassified); RCT
     (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or
     reagent)
        (stereoretentive nitrile hydratase catalyzed hydration of
        D-phenylglycine nitrile)
IT
     7664-41-7, Ammonia, formation (nonpreparative)
     RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
        (stereoretentive nitrile hydratase catalyzed hydration of
        D-phenylglycine nitrile)
              THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
RE
(1) Anon; 1973 CAPLUS
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(4) Anon; 1992 CAPLUS
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(7) Bhalla, T; Appl Microbiol Biotechnol 1992, V37, P184 CAPLUS
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(9) Boesten, W; EP 442585 1991 CAPLUS
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   1999, P3
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(18) Kobayashi, M; Appl Microbiol Biotechnol 1996, V45, P176 CAPLUS
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(24) Patel, R; Stereoselective Biocatalysis 2000, P23
(25) Pfennig, M; Arch Mikrobiol 1966, V55, P245
(26) Rainey, F; Microbiology 1995, V141, P523 CAPLUS
(27) Reilen, H; Liebigs Ann Chem 1936, V523, P199
(28) Stolz, A; J Mol Catal B: Enzymatic 1998, V5, P137 CAPLUS
(29) Sugiura, Y; J Am Chem Soc 1987, V109, P5848 CAPLUS
(30) Taillades, J; Bull Soc Chim Fr 1995, V132, P119 CAPLUS
(31) Wegman, M; J Mol Catal B: Enzymatic, in press 2000
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STN Search Summary => d his FILE 'CAPLUS' ENTERED AT 16:33:24 ON 26 MAR 2003 L1 262 S STRECKER (2W) SYNTHES? L2 152 S L1 AND (AMINO (2W) ACID?) L3 46 S L1 AND (CHIRAL?) L42 S L3 AND CARBOXYL? L5 7 S L3 AND ?CARBOXYL? L6 5 S L5 NOT L4 L7 59 S L1 AND NITRIL? L80 S L1 AND (NITRILASE OR (NITRILE (2W) HYDRATASE)) L9 17 S L1 AND REVIEW/DT L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS ΑN 2002:846194 CAPLUS Carbocyclic .alpha.,.beta.-diamino acids: asymmetric Strecker TΤ synthesis of stereomeric 1,2-diaminocýclohexanecarboxylic acids Pai Fondekar, Kamalesh P.; Volk, Franz-J.; Khaliq-uz-Zaman, S. M.; Bisel, ΑU Philippe; Frahm, August W. SO Tetrahedron: Asymmetry (2002), 13(20), 2241-2249 L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS ΑN 2000:656732 CAPLUS ΤI Carbocyclic .alpha.-amino acids: asymmetric Strecker synthesis of a series of 2-alkylated 1aminocyclopentanecarboxylic acids Wede, Judith; Volk, Franz-J.; Frahm, August W. ΑU SO Tetrahedron: Asymmetry (2000), 11(15), 3231-3252 L9 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2003 ACS ΑN 1998:452573 CAPLUS TΙ Stereoselective syntheses using carbohydrates as carriers of chiral information Kunz, Horst; Hofmeister, Armin; Glaser, Bjorn ΑU CS Johannes Gutenberg-Universitat Mainz, Mainz, Germany SO Polysaccharides (1998), 539-567. Editor(s): Dumitriu, Severian. Publisher: Dekker, New York, N. Y. DTConference; General Review

- L9 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2003 ACS
- AN1997:141855 CAPLUS
- New strategies to .alpha.-alkylated .alpha.-amino acids TI
- ΑU Wirth, Thomas
- SO Angewandte Chemie, International Edition in English (1997), 36(3), 225-227
- L9 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2003 ACS
- AN 1997:55720 CAPLUS
- Asymmetric catalysis of the Strecker amino acid ΤI synthesis by a cyclic dipeptide
- Iyer, M. S.; Gigstad, K. M.; Namdev, N. D.; Lipton, M. ΑU
- CS Department Chemistry, Purdue University, West Lafayette, IN, 47907, USA
- SO Amino Acids (1996), 11(3-4), 259-268

- L9 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2003 ACS
- AN 1996:621179 CAPLUS
- TI Syntheses of fluorinated amino acids. From the classical to the modern concept
- AU Tolmann, V.
- SO Amino Acids (1996), 11(1), 15-36
- L9 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2003 ACS
- AN 1994:245702 CAPLUS
- ${\tt TI}$ Recent developments in the stereoselective synthesis of .alpha.-amino acids
- AU Duthaler, Rudolf O.
- SO Tetrahedron (1994), 50(6), 1539-650

WEST Search History

DATE: Wednesday, March 26, 2003

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L2	\$nitrilase same (carboxylate or (carboxylic adj acid) or amino adj acid)	105	L2
L1	\$nitrilase and (carboxylate or (carboxylic adj acid))	156	L1

END OF SEARCH HISTORY